

**IN THE CLAIMS:**

1. (Currently Amended) A breathing circuit apparatus for housing for a sensor, for example a sensor for providing an output signal indicative of at least one parameter of a flow of gases through said housing apparatus, comprising:

a housing,

an internal cavity within said housing,

a first aperture in said housing in fluid communication with said ~~hollow interior~~ internal cavity, in use accepting said flow of gases, then flowing into said internal cavity,

a second aperture in said housing in fluid communication with said internal cavity, in use said flow of gases flowing from said internal cavity through said second aperture and said second aperture being at least partially higher than said first aperture,

a sensor mounting disposed within said housing between said first aperture and said second aperture, adapted such that in use a sensor located in said sensor mounting being at least partially within the path of said flow of gases, and

at least one condensation deflector within said internal cavity ~~on or~~ adjacent to said sensor ~~housing means mounting.~~ said at least one condensation deflector adapted to in use direct any condensation that forms within said internal cavity at least partially away from a ~~sensor-located sensor which is located~~ in said sensor mounting.

2. (Currently Amended) A breathing circuit apparatus ~~housing for a sensor~~ as claimed in claim 1 wherein said parameter relates to the flow rate of said flow of gases.

3. (Currently Amended) A breathing circuit apparatus ~~housing for a sensor~~ as claimed in

~~claim 1 wherein said parameter relates to the humidity of said flow of gases.~~

4. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in claim 1 wherein said parameter relates to the temperature of said flow of gases.

5. (Cancelled)

6. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in ~~claims 5~~ claim 21 wherein said elbow-shape comprises a first passage with a first end at said first aperture and a second end intersecting with a first end of a second passage having a second end at said second aperture, said first passageway being at an said angle of 30° to said second passageway and said sensor mounting is disposed within said first passageway.

7. (Cancelled)

8. (Cancelled)

9. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in ~~anyone of claims 6 to 8~~ claim 6 wherein said condensation deflector is located ~~on or~~ adjacent to the intersection between said first passageway and said second passageway.

10. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in ~~anyone of claims 6 to 9~~ claim 6 wherein said sensor mounting includes a notch at what is in use its lowermost portion, adapted such that in use any condensation which flows to or forms

on a sensor located in said sensor mounting or said sensor mounting is at least partially directed to flow through said notch and along said first passageway.

11. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in any one of claims ~~1 to 10~~ 1-4, 6, 9, 10, 21 and 22 adapted to be used in conjunction with a ~~humidifier~~ said humidifier, said humidifier adapted to humidify said flow of gases, and having an outlet and said first aperture being connected to or at least in fluid communication with said outlet, said housing adapted such that in use said first passageway thereby being substantially vertical.

12. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in ~~anyone of claim 6 to 11~~ wherein said second passageway being substantially cylindrical, and including a third aperture formed by the intersection of said first passageway, said condensation ~~deflecting means~~ deflector comprising at least a ledge formed in the periphery of and extending into said third aperture, said ledge adapted such that in use said sensor mounting or a sensor mounted in said sensor mounting being below and thereby protected from condensation by, said ledge.

13. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in ~~anyone claims 6 to 12~~ claim 6 wherein at least a portion of said first or second passageway including a roughened surface adapted to prevent the beading and allow continuous run-off of any condensation forming within said second passageway.

14. (Currently Amended) A breathing circuit apparatus housing for a sensor as claimed in

claim ~~13~~ 11 wherein said first or second passageway also including an anti-fogging agent to further prevent the beading and allow continuous run-off of any condensation forming within said second passageway.

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) A breathing circuit apparatus ~~housing for a sensor~~ as claimed in ~~anyone of claims 1 to 16~~ claim 1 wherein said housing is constructed using a molded plastics material.

18. (Cancelled)

19. (Currently Amended) A breathing circuit apparatus ~~housing for a sensor~~ as claimed in claim 1 wherein said second aperture is designed to connect to a conduit to convey said flow of gases to a patient, said conduit preferably including a heating means to reduce condensation within said conduit.

20. (Cancelled)

21. (New) A breathing circuit apparatus as claimed in claim 1 wherein said housing is generally elbow-shaped at an angle of 30°.

22. (New) A breathing circuit apparatus as claimed in claim 9 wherein said sensor mounting includes a notch at what is in use its lowermost portion, adapted such that in use any condensation which flows to or forms on a sensor located in said sensor mounting or said sensor mounting is at least partially directed to flow through said notch and along said first passageway.

23. (New) A breathing circuit apparatus as claimed in claim 9 wherein at least a portion of said first or second passageway including a roughened surface adapted to prevent beading and allow continuous run-off of any condensation forming within said second passageway.

24. (New) A breathing circuit apparatus as claimed in claim 10 wherein at least a portion of said first or second passageway including a roughened surface adapted to prevent beading and allow continuous run-off of any condensation forming within said second passageway.

25. (New) A breathing circuit apparatus as claimed in claim 22 wherein at least a portion of said first or second passageway including a roughened surface adapted to prevent beading and allow continuous run-off of any condensation forming within said second passageway.

26. (New) A breathing circuit apparatus as claimed in claim 12 wherein said first or second passageway also including an anti-fogging agent to further prevent beading and allow continuous run-off of any condensation forming within said second passageway.

27. (New) A breathing circuit apparatus as claimed in claim 13 wherein said first or second passageway also including an anti-fogging agent to further prevent beading and allow

continuous run-off of any condensation forming within said second passageway.

28. (New) A breathing circuit apparatus as claimed in claim 23 wherein said first or second passageway also including an anti-fogging agent to further prevent beading and allow continuous run-off of any condensation forming within said second passageway.

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